

### UNCLAS THE NAVY TODAY **25 OCTOBER 2000 GEORGE WASHINGTON (CVN)** SAIPAN (LHA)

**INCHON (MCS) OPS** 

**OPS** 

KITTY HAWK (CV) **OPS** 

BATAAN (LHD) **OPS** 

**CARL VINSON (CVN) OPS** 

TARAWA (LHA) OPS

HARRY S. TRUMAN (CVN) NASSAU (LHA) **OPS** 

**ESSEX (LHD) VST POHANG** 

> **ABRAHAM LINCOLN (CVN) OPS BUNKER HILL (CG) PAUL HAMILTON (DDG) CROMMELIN (FFG)** FLETCHER (FFG) MIO

4 EXERCISES / OPERATIONS ONGOING PORT VISITS TO 10 COUNTRIES

## Enduring Need for Naval Power

- Geography dictates that America must remain a maritime power.
- 75% of Earth's population inhabit littorals
- Most nations' economies depend upon sea for trade
- World instability
  - Signals growing need for forward deployment / engagement
  - ⇒ Foreshadows a declining access to overseas bases

U.S. Navy Must Remain Forward Engaged and Maintain Unimpeded Access to Littorals

## Emerging Patterns in Tempo



Navy Deployed Ships up 52% Since 1990



Mission Accomplishment Our #1 Priority

- Afghanistan / Kosovo set new precedence for Surface Warfare attacking land-locked nations
  - Now an integral part of Joint Force posture
    - Maritime Dominance provides <u>Assured</u> <u>Access</u> to get us there
    - TBMD keeps us there
    - Strike / Land Attack supports Joint land battle
    - Knowledge Superiority provides coordination of effects
  - ⇒ Issues
    - Funding
    - USMC / USA commonality





# Force Structure Drivers Meeting International and National Needs

### Peacetime Engagement

- Meeting forward engagement requirements
- New missions bring significant deterrence value
  - ⇒ 2005: Area TBMD, STK (TACTOM, LASM)
  - 2015: Theater Wide TBMD, Support the Land Battle



Credible Deterrence Force World Wide



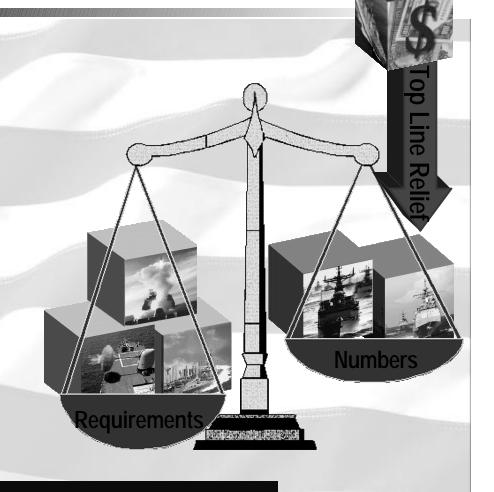
- NTW: vital to early theater survival and force buildup
- TLAM, TACTOM: greatest value by providing early in-theater capacity
- ZUMWALT Class needed in numbers for artillery support to the USA and USMC
- Multi-mission ships meet Maritime Dominance requirements

Warfighting for the Future: AEGIS Cruisers / Destroyers, ZUMWALT Class DD21



Pacing the Threat in an Uncertain World

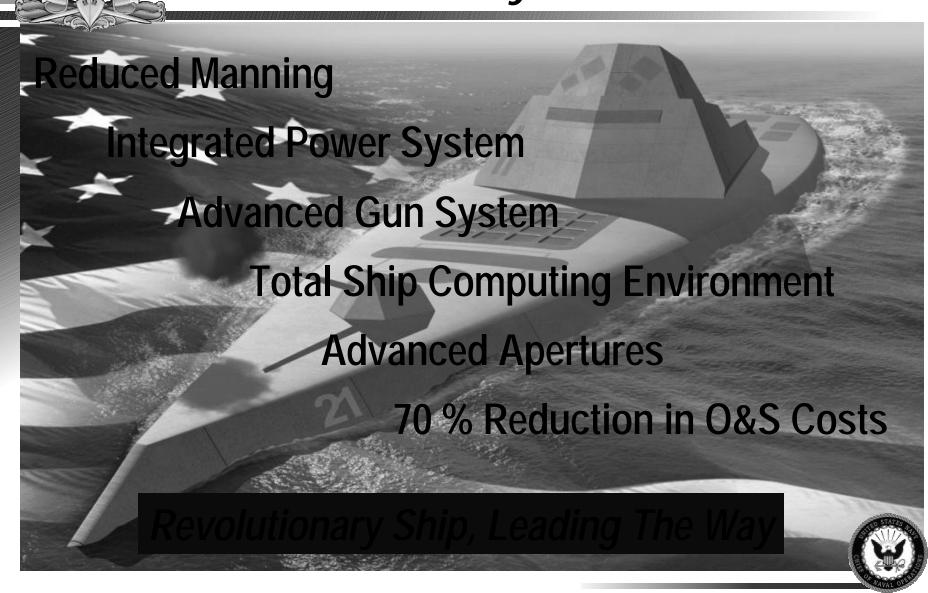
- 134 -138 Surface Combatants in 2015 provide capable:
  - War winning capacity
  - **⇒ TBMD**
  - ⇒ Land Attack
  - Forward engagement
  - Simultaneous other-theater presence



Balancing Requirements with an Affordable Force Structure

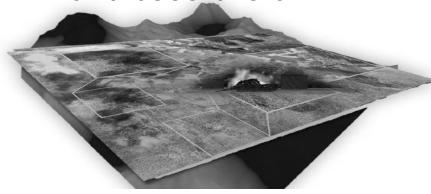


# DD21 ZUMWALT Class Land Attack Destroyer



### ZUMWALT Class Providing Substantial Capability

- Land Attack in theater
  - **⇒**Strategic Attack
  - ⇒Interdiction
  - ⇒Support ground forces
- ZUMWALT Class capabilities consistent with Army's "effects based fires" concept
- USMC fire support
  - **⇒** Satisfies Marine Corps requirements
- Multi-mission capability provides needed ASW protection and escort role



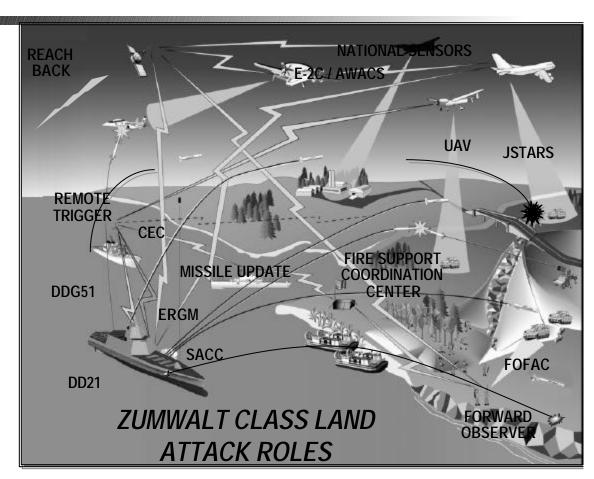
Decisively Influencing
Events Ashore





### ZUMWALT Class CONOPS and OMFTS/STOM

- Concepts Evolving to Meet Future Scenarios and Threat
- Need OMFTS/STOM
   Specifics to Ensure
   ZUMWALT Class
   CONOPS Meets USMC
   Needs, i.e. During Long Range MV-22 Raid:
  - How Far Out Will You Maneuver?
  - ⇒ What Size/Type Force?
  - ⇒ What Type of Support?
  - Expected Types and Duration of Fires?
  - Volume Requirements at longer ranges.
  - ⇒ Fire Support Coordination Chain?



We Need a Combined, Synergistic Approach to Develop Mutually Supportable Concepts

# CG Conversion/Modernization is Critical Navy Theater Wide, Multi-Mission, and C<sup>2</sup>

- CG52-73 conversion required to satisfy forward engagement NTW deployments.
  - ⇒ NTW with SM-3 Blk 2
- CG47-51 modernization reduces MTW maritime protection shortfall.
  - ⇒ VLS, ESSM, ERGM, and NFCS upgrades
  - Baseline 1 returns to worldwide deployment
  - ⇒ Multi-mission and C<sup>2</sup> capability
    - Air Area, Surface, and Undersea dominance

Maintains Full Mission Capability Until Replaced By CG21 in FY2019

# DDG Flt I and IIA in the Littoral.... Enablers for Assured Access

- Area TBMD
- SM-2 Blk IVA
- 5" / 62 Gun and ERGM
- LASM
- NFCS
- SPY-1D(V) W / TIP
- CEC / Link 16
- Dual SH-60R
- Organic Minehunting



Norkhorse of the 21st Century Fleet



### Surface Warfare into the Littorals

- Integrated USW for the 21 Century (IUSW-21)
- SH-60R LAMPS Helicopter
  - **⇔** ALFS Dipping Sonar
  - Sonobuoy Processing
  - **⇒** Enhanced Survivability
- Remote Minehunting
- Organic Mineavoidance
- UAV Downlink/Control
- RAM Blk1 Surface/Helo Mode
- Torpedo Defense
- Improved Target ID/Localization
- ELB/C4I



**⇒** Periscope Detection

⇒ Penguin/Hellfire







Knowledge Superiority Network Centric Warfare

Decentralized Command and Control.

 Robust and reliable networking of forces with diverse and distributed capabilities.

 Tying sensors, shooters and commanders together in a shared information scheme.

CEC C

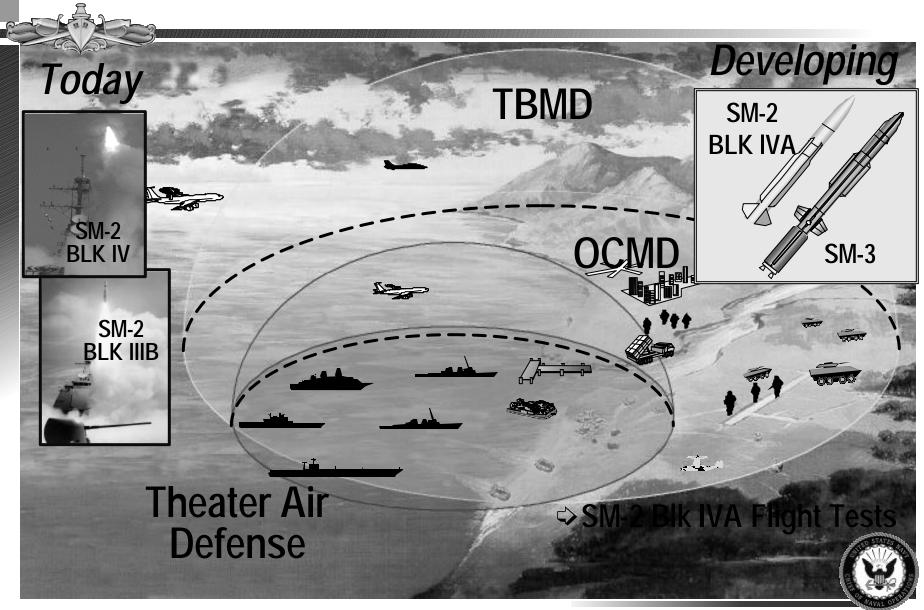
⇒ NFCS

 NCW produces unity of effort and contributes to total force capability through positioning and fusing critical, multi-source information

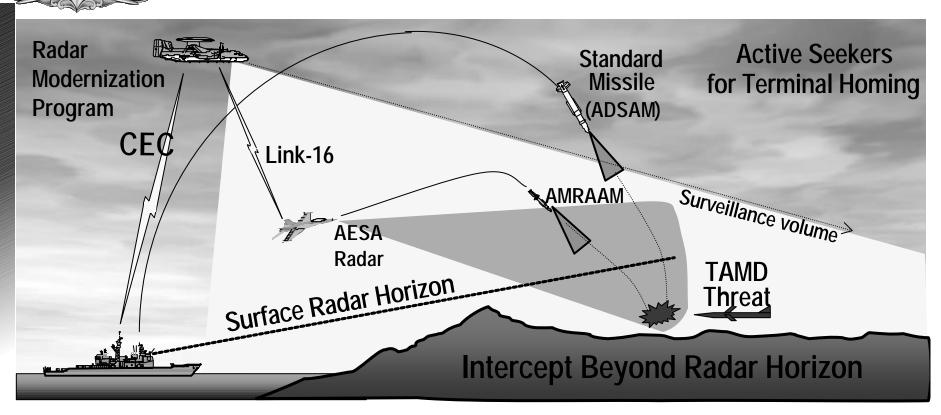
Single integrated land / surface / undersea / air picture

Massed Effects Without
Massing Forces

## Theater Air Warfare Roadmap



# Overland Cruise Missile Defense Navy ADSAM & AMRAAM Capability

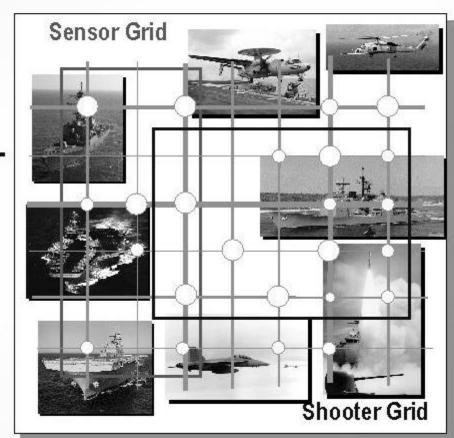


- Uses CEC to pass radar track data between airborne and surface units
- Extends engagement range out to kinematic range of interceptor missiles
- Increases battlespace reaction time, visibility and engagement opportunities

### The CEC Revolution



- Sensor netting system provides composite tracking
- Enables engage on remote multiple units fight as one distributed unit
- Increases battle space and improves reaction time
- Enhances capability to intercept at longer ranges
- Improves depth of fire



JF Kennedy BG Deploys with CEC in FY03

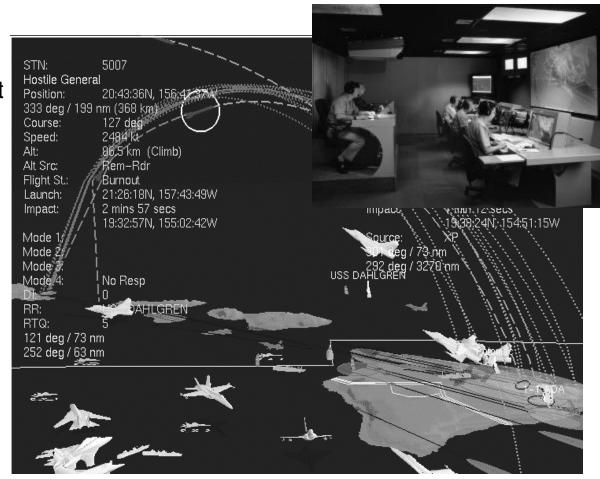


### Area Air Defense Commander



#### **Features:**

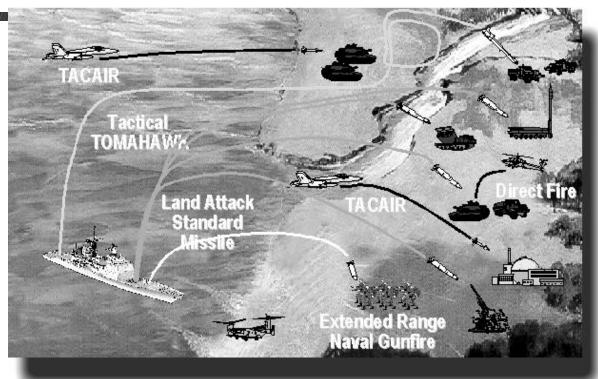
- ⇒ Real-time battle management
- ⇒ National sensor downlink
- ⇒ High bandwidth comms
- ⇒Integrated JPN (GCCS), JDN (Link11/16), JCTN (CEC) networks
- **⇒DII COE Compliant**
- ⇒ Integration of intelligence information
- ⇒ Video teleconferencing



Managing Joint Air Defense From the Sea



## Land Attack Decisively Influencing Events Ashore



- Seabased firepower will be allocated dynamically from a networked-based architecture
- Precise and scalable massed fire
- Executed at all levels of war / lowest possible echelon
- Match firepower, not ships, to the mission
- Enabler for OMFTS / STOM

